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PHOTOGRAPHIC INTERPRETATION REPORT

MENSURAL DATA ON SELECTED SAM SITES
AND SITE 1, LAUNCH COMPLEX A
SARY-SHAGAN ANTIMISSILE TEST CENTER
USSR

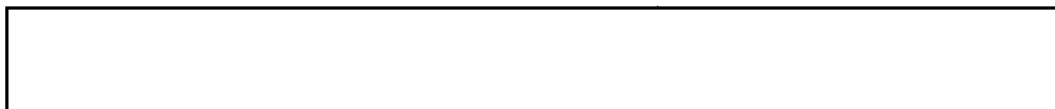


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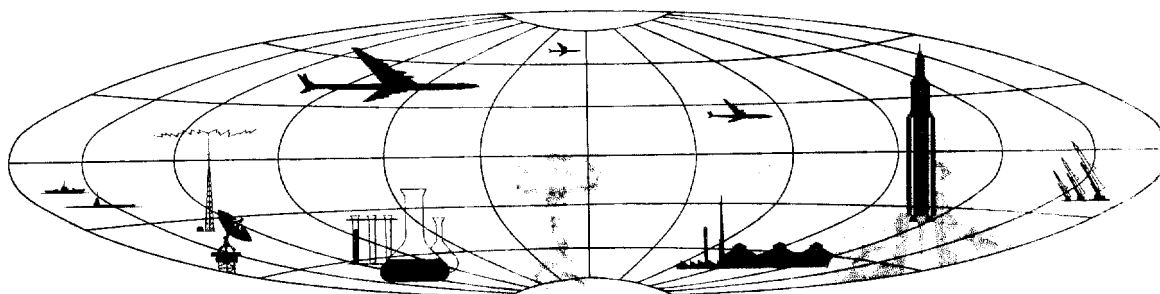
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MENSURAL DATA ON SELECTED SAM SITES AND SITE 1 LAUNCH COMPLEX A, SARY-SHAGAN ANTIMISSILE TEST CENTER, USSR

This report has been prepared in response to NSA requirement P0432/R124-64, which requests a comparison of certain dimensions and distances at a representative SA-2 SAM (surface-to-air missile) site, representative Category 1 and 2 SA-0 SAM sites, and at Site 1, Launch Complex A, of the Sary-Shagan Antimissile Test Center (SSATC). In addition to providing the information requested on these installations (Figures 1-5), this report provides similar data on the sites at the Antipinskoye SAM activity (Figure 6). The cutoff date for the information herein is [REDACTED]

At all of the installations, distances between adjacent pads, maximum site diameters, and representative launch positions were measured. Site road widths were also measured at all except one site. The resulting dimensions are shown on the respective drawings of the sites. All pad-to-pad distances were measured between what was assumed would be the approximate positions of launchers on the pads. Site diameters were measured from pad to pad and/or between site perimeter roads. Launch positions were measured from the juncture of the service road with the area occupied by the launcher to the opposite edge of this area and from side to side along the service road (in all cases the larger dimension).

Two SA-2 sites (Figures 1 and 2) were selected as representative because they exemplify 2 SA-2 site sizes. These sites were Yoshkar-Ola ICBM Complex SAM Site B27-2 (BE No [REDACTED]) and Zhdanov SAM Site B09-2 (BE No [REDACTED]). Both sites have star configurations with 6 revetted launch positions and a central guidance area. However, as indicated in Figures 1 and 2, the difference

between the pad-to-pad dimensions of each site is considerable.

The representative Category 1 SA-0 site selected (Figure 3) was Penza SAM Site B08-0 (BE No [REDACTED]). It has an undetermined configuration because of the lack of well defined service roads and consists of 6 revetted launch positions, a central guidance area, and a drive-through revetment on either side of its main access road. It can be noted that its maximum pad-to-pad diameter is similar to that of Yoshkar-Ola ICBM Complex SAM Site B27-2. The widths of its roads could not be measured because they are so poorly defined.

The representative Category 2 SA-0 site selected (Figure 4) was formerly designated Kapustin Yar Missile Complex SA-0 SAM Site (BE No [REDACTED]) it has been abandoned and overgrown by vegetation, as have most other Category 2 SA-0 sites. The configuration of this site was undetermined because of the lack of a well defined road pattern. The site consisted of 6 unrevetted launch positions and a central guidance area. It can be observed that its maximum pad-to-pad diameter was similar to that of Zhdanov SAM Site B09-2.

Site 1, Complex A (BE No [REDACTED]) (Figure 5) of the SSATC has a fan configuration with 6 unrevetted launch positions and a central guidance area. A seventh apron/hardstand at this site does not compare with any known SAM site facility in size. The site pad separations approximate those of Zhdanov SAM Site B09-2 and the Category 2 SA-0 site.

Four of the sites at the Antipinskoye SAM activity (BE No [REDACTED]) are arranged in what appear to be 2 pairs of mirror-image launch facilities (designated B and C in Figure

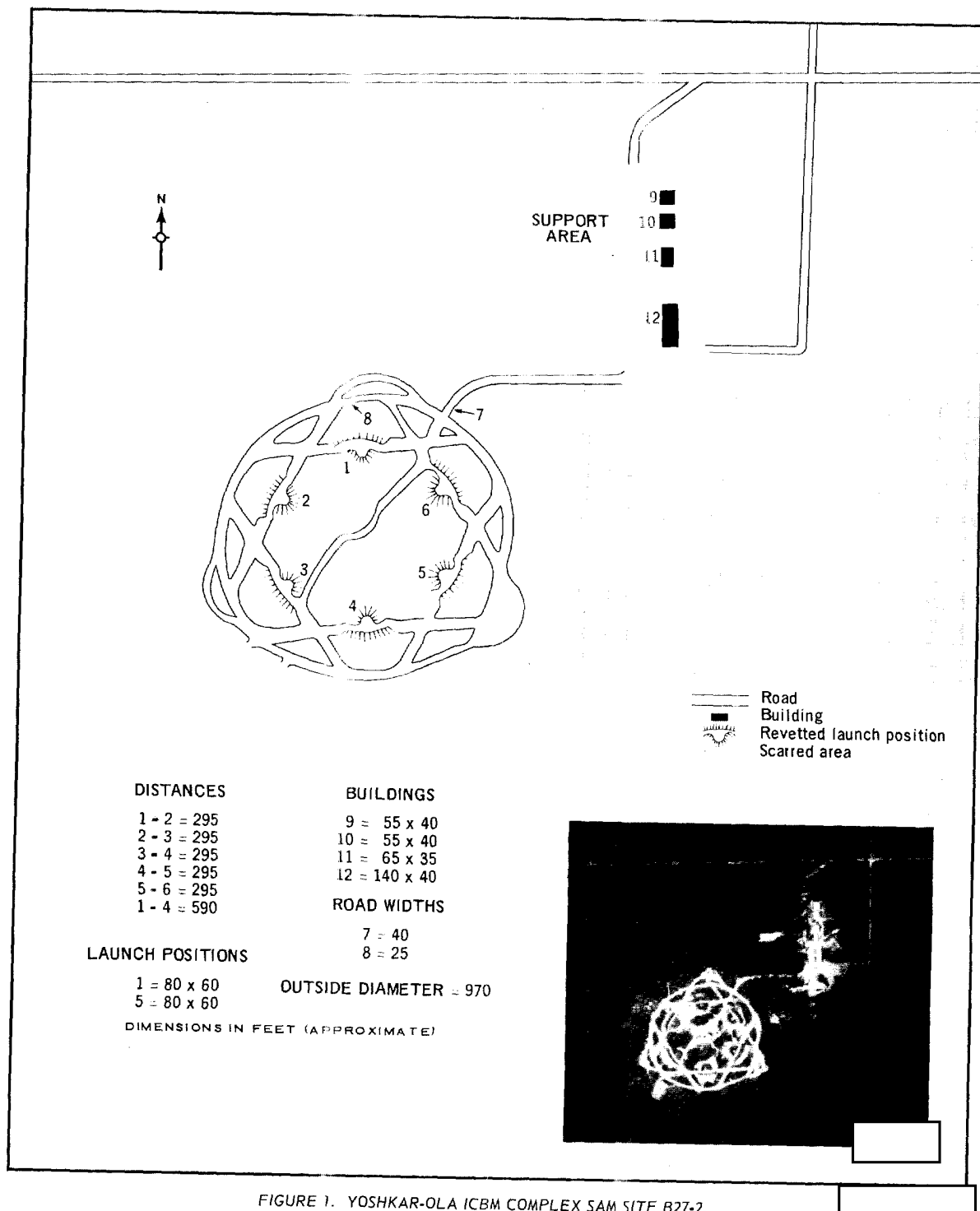
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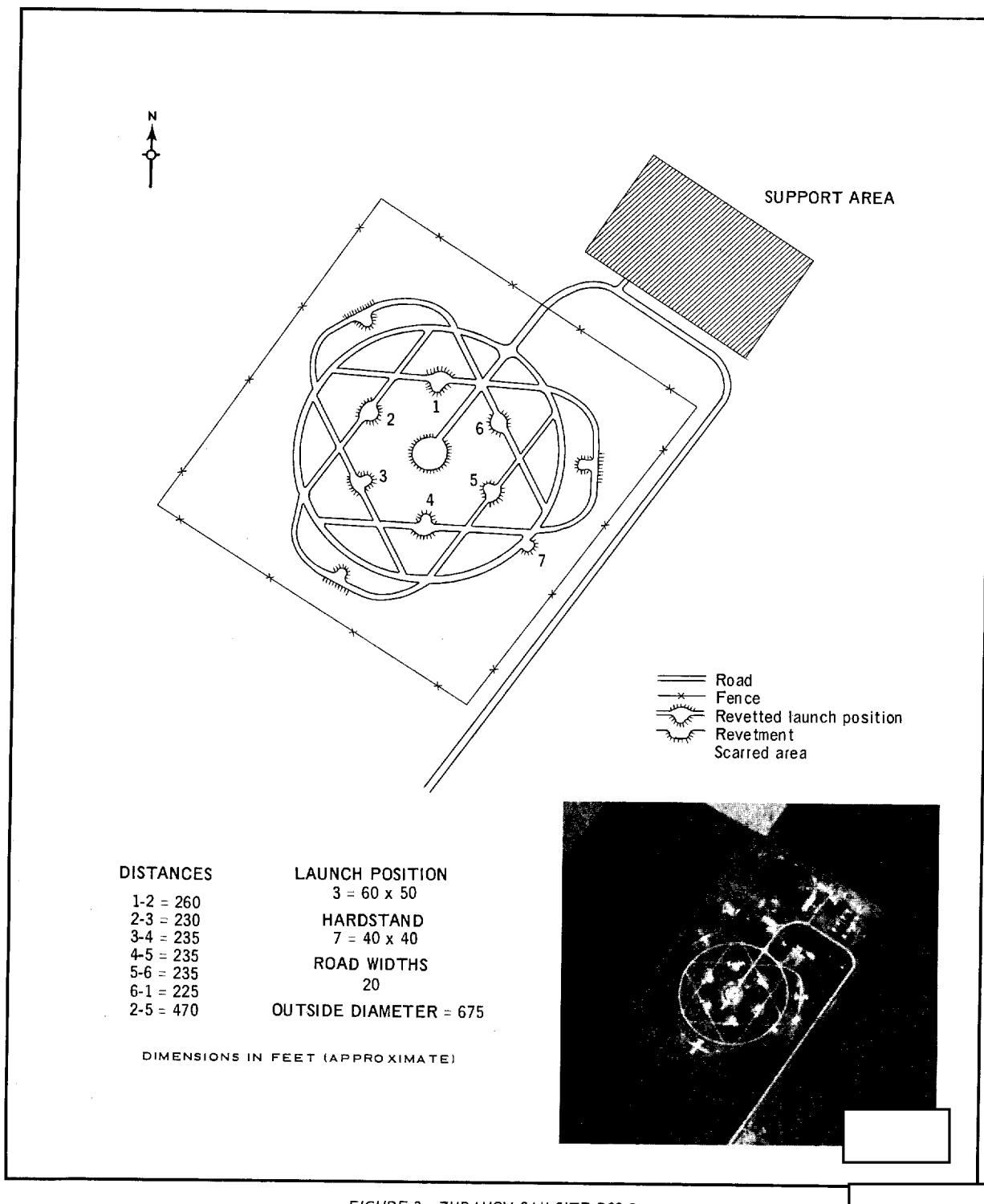


FIGURE 2. ZHDANOV SAM SITE B09-2.

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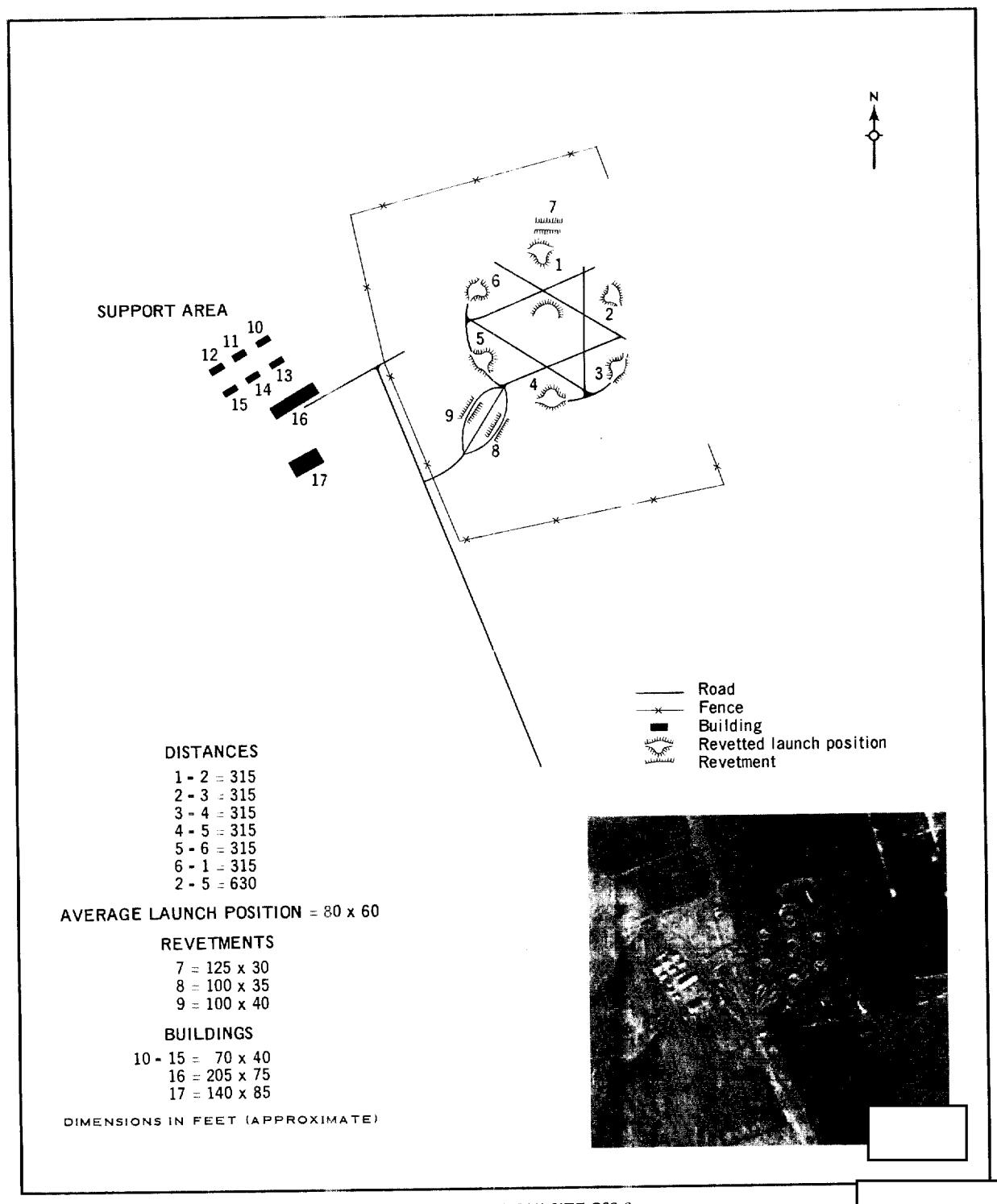
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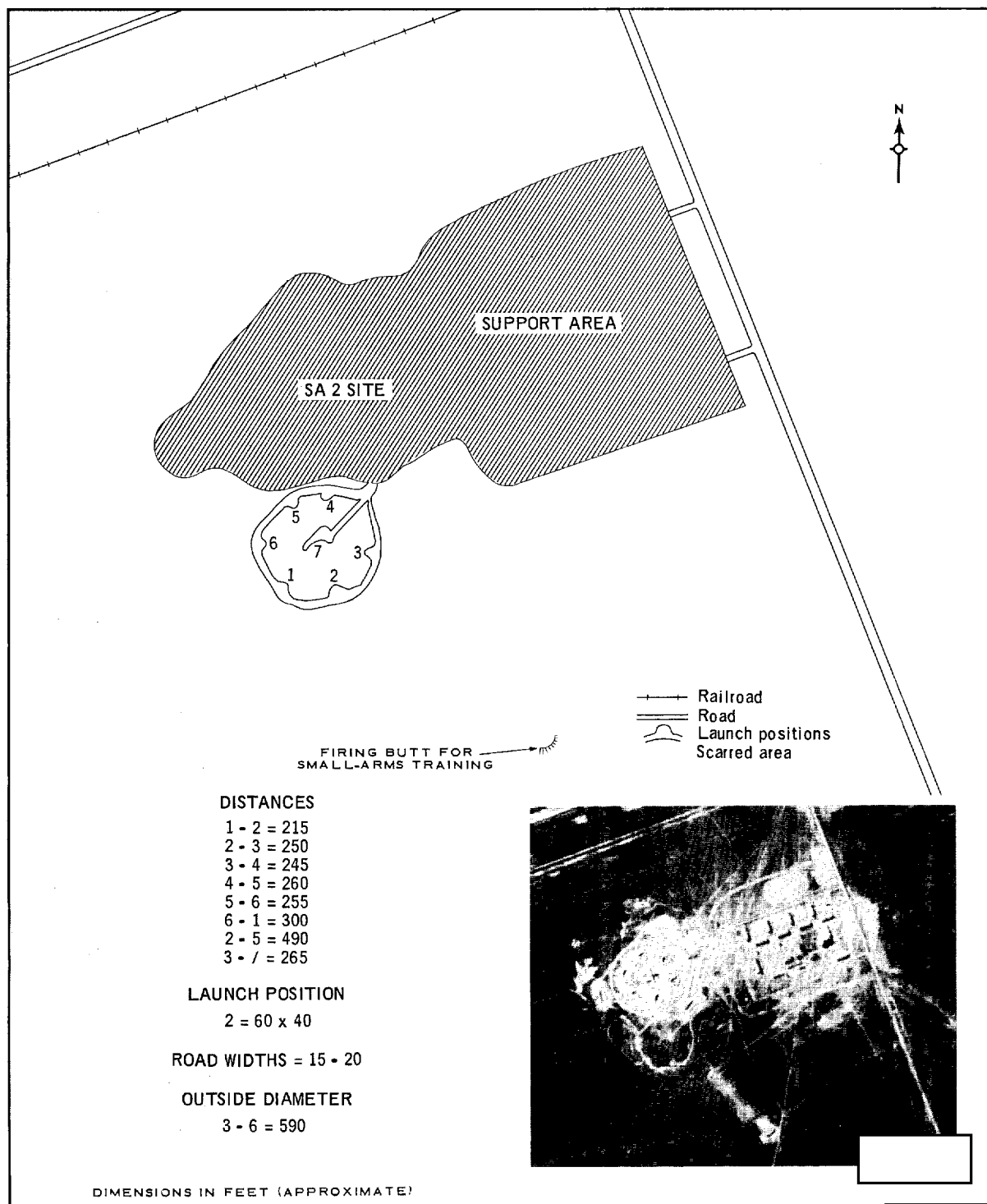


FIGURE 4. KAPUSTIN YAR MISSILE COMPLEX SA-0 SAM SITE.

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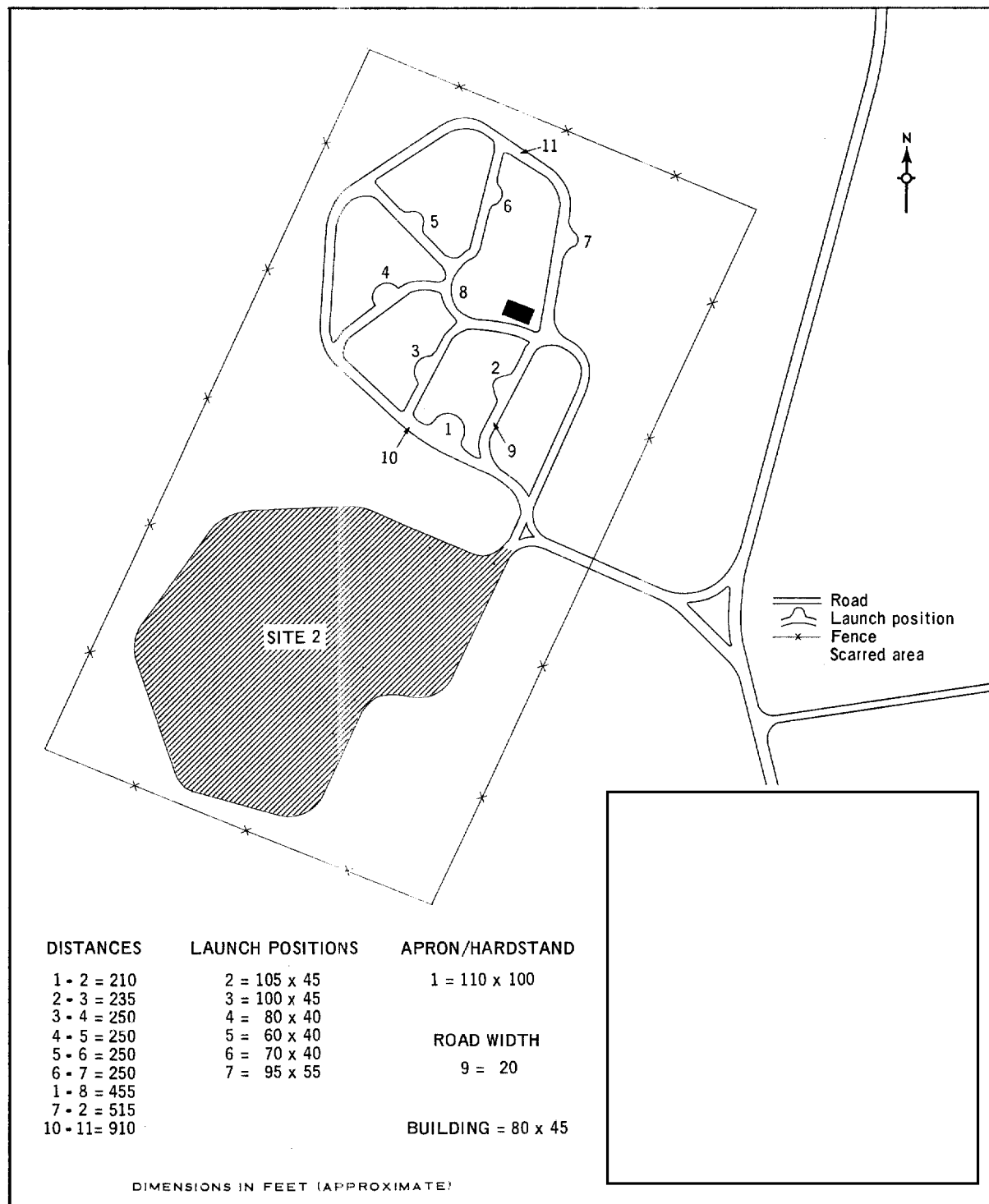
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FIGURE 5. SITE 1, COMPLEX A, SARY-SHAGAN ANTIMISSILE TEST CENTER.

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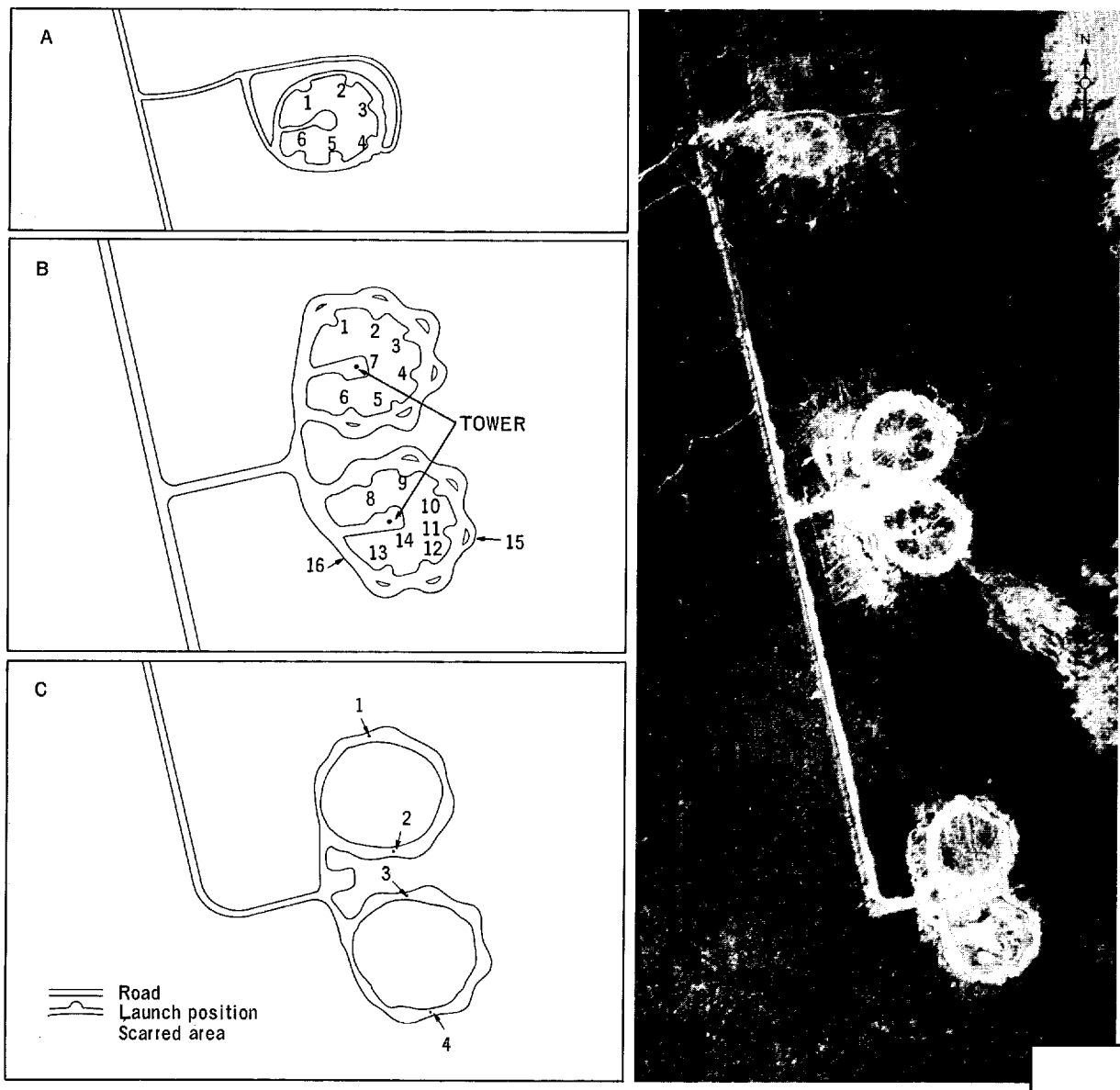
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A
DISTANCES

1 - 2 = 215
2 - 3 = 175
3 - 4 = 220
4 - 5 = 195
5 - 6 = 180
1 - 4 = 415
1 - 6 = 325

B
DISTANCES

1 - 2 = 205
2 - 3 = 200
3 - 4 = 195
4 - 5 = 190
5 - 6 = 200
1 - 5 = 520
1 - 6 = 485
8 - 9 = 190
9 - 10 = 185
10 - 11 = 205
11 - 12 = 200
12 - 13 = 185
8 - 13 = 475
9 - 13 = 505

LAUNCH POSITIONS

1 = 55 X 35
13 = 60 X 55

GUIDANCE APRONS

7 = 115 X 95
14 = 120 X 85

ROAD WIDTHS

15 =
16 =

C
DISTANCES

1 - 2 = 560
3 - 4 = 585

ALL DIMENSIONS IN FEET
(APPROXIMATE)

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FIGURE 6. ANTIPINSKOYE SAM ACTIVITY.

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6). The sites of the northern pair each consist of 6 unrevetted launch positions and a central guidance area; those of the southern pair have no launch positions or guidance areas. Towers 25 to 30 feet high have been seen on the guidance aprons of the northern pair. The pad-to-pad distances at the latter sites do not approximate those of any of the other sites discussed

herein, although they do resemble pad-to-pad distances at several SA-2 sites in the USSR. The fifth site at Antipinskoye, which has 6 unrevetted launch positions and a central guidance area, has pad-to-pad dimensions similar to those of the northern pair of Antipinskoye sites; however, unlike these sites, it appears to have service roads which are unimproved.

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REFERENCES

MAPS OR CHARTS

<u>Installation</u>	<u>Map</u>
Yoshkar-Ola SAM Site B27-2	DIA. US Air Target Chart, Series 200, Sheet 0155-22HL, 3d ed, Feb 63, scale 1:200,000 (SECRET)
Zhdanov SAM Site B09-2	DIA. US Air Target Chart, Series 200, Sheet 0249-7HL, 3d ed, May 63, scale 1:200,000 (SECRET)
Ponza SAM Site B08-0	DIA. US Air Target Chart, Series 200, Sheet 0166-19HL, 2d ed, May 63, scale 1:200,000 (SECRET)
Kapustin Yar Missile Complex SA-0 SAM Site	ACIC. US Air Target Chart, Series 200, Sheet 0235-22HL, 4th ed, May 63, scale 1:200,000 (SECRET)
Site 1, Complex A, SSATC	ACIC. US Air Target Chart, Series 200, Sheet 0245-9AL, 2d ed, May 61, scale 1:200,000 (SECRET) ACIC. US Air Target Chart, Series 200, Sheet 0245-14AL, 3d ed, May 61, scale 1:200,000 (SECRET)
Antipinskoye SAM activity	AMS. Series N508, Sheet NN 49-12, 1st ed, Nov 58 (UNCLASSIFIED)

REQUIREMENT

NSA. P0432/R124-64

NPIC PROJECT

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